

ACCESS SERVICE

7. Special Access Services (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Direct Analog Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(13) Line-Powered Data Station Termination Unit (DST)

Line-powered DSTs are available at customer-designated premises in lieu of commercial-powered DSTs. This option is available on new and existing channels with two-wire or four-wire, two-point or multi-point channels.

(14) DS0 Fiber Hub Cross-Connection

An arrangement to cross-connect DS0 (Direct Analog to Direct Analog) terminations at all designated Fiber Hub locations (described in 7.4.10 following).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Direct Analog Service (Cont'd)

(E) The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package VG-												
	C	1	2	3	4	5	6	7	8	9	10	11	12
C-Type Conditioning Central Office Bridging Capability	X					X	X	X	X	X	X		
Central Office Multiplexing	X		X			X	X				X	X	X
Code Select Signaling Arrangement	X		X				X						
Customer Specified Premises Receive Level	X		X	X				X	X	X			
Data Capability	X						X	X			X		
Improved Attenuation Distortion	X					X	X	X	X	X	X		
Improved Envelope Delay Distortion	X					X	X	X	X	X	X		
Improved Termination	X	X	X	X	X	X	X	X	X	X	X	X	X
Improved Return Loss For Effective Two-Wire Transmission	X		X	X				X					
Sealing Current Conditioning	X					X	X				X		
Signaling Capability	X	X	X	X				X	X	X			
Telephoto Capability	X											X	
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Direct Analog Service (Cont'd)

(F) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire network channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Local Distribution Channel rate.

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ACCESS SERVICE**7. Special Access Service (Cont'd)****7.2 Service Descriptions (Cont'd)****7.2.4 Program Audio Service****(A) Basic Channel Description**

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the network channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(B) Technical Specifications Packages

Parameter	Package AP-				
	C*	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking					
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000337 and associated addendum.

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(C) Network Channel Interfaces

The following network channel interfaces (CIs) define the bandwidths that are available for a Program Audio channel:

* The desired parameters are selected by the customer from the list of available parameters.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service (Cont'd)

(C) Network Channel Interfaces (Cont'd)

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<u>CI</u>	<u>Bandwidth</u>
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible network channel interfaces are set forth in 7.3.5(D) following.

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(D) Optional Features and Functions

(1) Central Office Bridging Capability

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to 0dB \pm 0.5 dB.

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package AP-</u>				
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service

(A) Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or more associated audio signal(s) as described below. The provision and the bandwidth of the associated audio signal(s) is a function of the network channel interface selected by the customer. Analog Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub. Digital Video channels are only provided between customer designated premises.

(1) Analog Video Service

The bandwidth for analog video service is either 30 Hz to 4.5MHz or 30 Hz to 6.6MHz. The associated audio signal(s) may be either diplexed or provided as one or two separate channels.

(2) Digital Video Service

Digital Video Service is the receipt or hand-off of a one-way base band or digital video signal at the network interface. The bit rate for digital video service is 45Mbps. One to four associated audio signal(s) may be provided at 15kHz. Digital Video Service may not be mixed with Analog Video Service.

Digital Video Service will be provided with or without Telephone Company provided video enabling equipment at the network interface. Every Digital Video Service requires at least one Local Distribution channel that specifies customer baseband network interface, which includes Telephone Company provided video enabling equipment.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service

(B) Technical Specifications Packages

Parameter	Package TV -		
	C*	1	2
Amplitude vs. Frequency Response	X		
Chrominance/Luminance Inequalities			
Gain	X	X	X
Delay	X	X	X
Chrominance/Luminance Intermodulation	X		
Chrominance Nonlinear Gain	X		
Chrominance Nonlinear Phase	X		
Crosstalk	X		X
Differential Gain	X	X	X
Differential Phase	X	X	X
Dynamic Gain (picture and sync signal)	X		
Field-Time Distortion	X	X	X
Gain/Frequency Distortion	X	X	X
Gain Stability	X	X	X
Insertion Gain	X	X	X
Line-Time Distortion	X	X	X
Long-Time Distortion	X	X	X

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* The desired parameters are selected by the customer from the list of available parameters.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Video Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

Parameter	Package TV -		
	C*	1	2
Luminance Nonlinearity	X		
Luminance Signal/CCIR			
Weighted Noise	X	X	X
Short-Time Distortion			
2 T Pulse	X	X	X
T - Bar Ringing	X	X	X
Signal/15 kHz Flat			
Weighted Noise	X	X	X
Signal/Low Frequency			
Noise	X		
Stereo Gain Difference	X	X	
Stereo Phase Difference	X	X	
Total Harmonic Distortion	X	X	X
Transient Sync Signal			
Non-Linearity	X		
Video/Audio Delay			
Difference	X		

The technical specifications are delineated in Technical Reference
TR-NPL-000338 and associated Addendum and TR-ENG-000121.

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(C) Network Channel Interfaces

The following network channel interfaces (CIs) define the bandwidth and
the provision of the audio signal(s) associated with a Video channel:

CI	Audio Bandwidth	Provision
2TV6-1	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed
2TV7-2	15kHz	2 Channels, diplexed
06TV6.15	15kHz	1 or 2 Channels, diplexed
10TV6.15A	15kHz	1 to 4 Channels, diplexed

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* The desired parameters are selected by the customer from the list of
available parameters.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service* (Cont'd)

(B) Technical Specifications Packages (Cont'd)

Parameter	Package WA-				
	1	2	2A	3	4
Gain/Frequency Characteristics of:					
-Group Connections	X			X	X
-Supergroup Connections		X			
-Mastergroup Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single Frequency Tone	X	X	X		

The technical specifications are delineated in Technical Reference TR-NPL-000339 and associated Addendum.

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* Wideband Analog Service is limited to circuits in place as of August 11, 1988.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service* (Cont'd)

(B) Technical Specifications Packages (Cont'd)

<u>Parameter</u>	<u>Package WA-</u>				
	1	2	2A	3	4
Gain/Frequency					
Characteristics of:					
-Group Connections	X			X	X
-Supergroup					
Connections		X			
-Mastergroup					
Connections			X		
Impulse Noise	X	X	X		
Net Loss Variations	X	X	X	X	X
Pilot Slot	X	X	X		
Spurious Single					
Frequency Tone	X	X	X		

The technical specifications are delineated in Technical
Reference PUB 62505 and associated Addendum.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.6 Wideband Analog Service* (Cont'd)

(C) Network Channel Interfaces

The following network channel interfaces (CIs) define the bandwidths that are available for a Wideband Analog channel:

CI	Bandwidth
AH-B	60 kHz to 108 kHz (Group)
AH-C	312 kHz to 552 kHz (Supergroup)
AH-D	564 kHz to 3084 kHz (Mastergroup)
WD-1	300 Hz to 18 kHz
WD-2	28 kHz to 44 kHz
WD-3	29 kHz to 44 kHz

Compatible network channel interfaces are set forth in 7.3.5(F) following.

(D) Optional Features and Functions

(1) Central Office Multiplexing

(a) Mastergroup to Supergroup

An arrangement that converts a Mastergroup channel to ten Supergroup channels using frequency division multiplexing.

(b) Supergroup to Group

An arrangement that converts a Supergroup channel to five Group channels using frequency division multiplexing.

(c) Group to Voice

An arrangement that converts a Group channel to twelve voice grade channels using frequency division multiplexing. A channel(s) of this Group level service to the Hub can also be used for Program Audio or Metallic Services. Multiple channels may be required to provide individual Program Audio channels.

* Wideband Analog Service is limited to circuits in place as of August 11, 1988.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.6 Wideband Analog Service** (Cont'd)

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(D) Optional Features and Functions (Cont'd)(1) Central Office Multiplexing (Cont'd)(d) Group to DS1

An arrangement that converts two Group channels to a DS1 channel using analog to digital conversion.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WA -				
	<u>1</u>	<u>2</u>	<u>2A</u>	<u>3</u>	<u>4</u>
Central Office Multiplexing:					
Mastergroup to Supergroup			X		
Supergroup to Group		X			
Group to Voice	X				
Group to DS1*					

* Requires two channels with technical specifications package WA1 to form a WAIT service.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.7 Wideband Data Service*

(A) Basic Channel Description

A Wideband Data channel is an analog channel for the transmission of synchronous serial data at the rate of 19.2, 50.0, or 230.4 kbps or of asynchronous serial data at rates of up to 19.2, 50.0, or 230.4 kbps. Optional arrangements are available for transmission of synchronous serial data at 18.75 or 40.8 kbps. The actual bit rate is a function of the channel interface selected by the customer. This service requires a 303 Data Station(s). The 303 Data Station provides coupling between the customer's business machine and the wideband data transmission medium. A voiceband coordinating channel is also provided. Wideband Data channels are provided between customer designated premises.

(B) Technical Specifications Packages

Parameter	Package WD-		
	1	2	3
Error-Free Seconds	X	X	X

While in service, the monthly average of error-free seconds will be equal to or greater than 98.75%.

(C) Network Channel Interfaces

The following network channel interfaces (CIs) define the bit rates that are available for a Wideband Data channel:

CI	Bit Rate
WB-18S	18.75 kbps, synchronous
WB-19A	up to 19.2 kbps, asynchronous
WB-19S	19.2 kbps, synchronous
WB-23A	up to 230.4 kbps, asynchronous
WB-23S	230.4 kbps, synchronous
WB-40S	40.8 kbps, synchronous
WB-50A	up to 50.0 kbps, asynchronous
WB-50S	50.0 kbps, synchronous

Compatible network channel interfaces are set forth in 7.3.5(g) following.

* Wideband Data Service is limited to circuits in place as of August 11, 1988.

ACCESS SERVICE**7. Special Access Service (Cont'd)****7.2 Service Descriptions (Cont'd)****7.2.7 Wideband Data Service** (Cont'd)****(D) Optional Features and Functions****(1) Key Activated Transfer Arrangement**

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. A key activated control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package WD-		
	1	2	3
Key Activated Transfer Arrangement	X	X	X

7.2.8 Direct Digital Service**(A) Basic Channel Description**

A Direct Digital Service channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, or 56 kbps. The actual bit rate is a function of the network channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Direct Digital Service channels are only available via Telephone Company designated DDS hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

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* * Also referred to as Digital Data Service in Technical References.
Wideband Data Service is limited to circuits in place as of August 11, 1988.

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ACCESS SERVICE**7. Special Access Service (Cont'd)****7.2 Service Descriptions (Cont'd)****7.2.3 Direct Digital Service (Cont'd)****(A) Basic Channel Description (Cont'd)**

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Direct Digital Service channel at the customer premises. The interim program for interconnection of such equipment is set forth in Technical Reference PUB AS No. 1.

(B) Technical Specifications Packages

Parameter	Package DA-			
	1	2	3	4
Error-Free Seconds	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Direct Digital Service are delineated in Technical Reference TR-NPL-000341.

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(C) Network Channel Interfaces

The following network channel interfaces (CIs) define the bit rates that are available for a Direct Digital Service channel:

CI	Bit Rate
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-56	56.0 kbps

Compatible network channel interfaces are set forth in 7.3.5(H) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Direct Digital Service (Cont'd)(D) Optional Features and Functions(1) Central Office Bridging Capability

Central Office Bridging Capability allows for communications between three or more circuit termination locations.

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N(2) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer premises. This arrangement is only available at a Telephone Company designated DDS hub. A key activated or dial up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

(3) Secondary Channel

An arrangement that provides the customer the flexibility of utilizing a secondary channel in conjunction with a primary Direct Digital Service channel. The secondary channel and primary channel operate independently of each other, over the same facilities, and must be coterminated in common customer provided equipment as described in 7.2.8 (A) preceding. The secondary channel is typically used for network management applications and is offered as a two-point service and multipoint service where available. The availability of this service is limited and may vary by Ameritech Operating Company. The addition of the secondary channel option to an existing Direct Digital Service will be treated as a disconnect of the existing service and an installation of a new service including the secondary channel.

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Direct Digital Service (Cont'd)(D) Optional Features and Functions (Cont'd)

The technical specifications for this feature are as described in Technical Reference TR-NPL-000157. The bit rates of the secondary channel are as shown in the following table:

Direct Digital Service Channel Transmission Speed	Secondary Channel Transmission Speed
2.4 Kbps	133 bps
4.8 Kbps	266 bps
9.6 Kbps	533 bps
36.0 Kbps	2.666 Kbps

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package DA-			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X
Transfer Arrangement	X	X	X	X
Secondary Channel	X	X	X	X

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Services

(A) Basic Channel Description

(1) General

Ameritech Base Rate channels, Ameritech DS1 channels, and Ameritech DS3 channels provide digital transmission at the discrete bit rates of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 56.0 Kbps, 64.0 Kbps, and 1.544 Mbps and 44.736 Mbps, with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. These services provide digital transmission with the following characteristics:

- Ameritech Base Rate Services provide channels operating at terminating bit rates of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, 19.2 Kbps and 56.0 Kbps, and 64.0 Kbps;
- Ameritech DS1 Service provides channels operating at the terminating bit rate of 1.544 Mbps; and,
- Ameritech DS3 Service provides channels operating at the terminating bit rate of 44.736 Mbps.

Ameritech Base Rate, DS1 and DS3 channels may be used to connect:

- a customer designated premises to another customer designated premises, or;
- a customer designated premises to a Telephone Company location where bridging, cross-connection or multiplexing functions are performed; or an ARS system location.
- two ANRS system locations may be connected via Ameritech Base Rate, Ameritech DS1 or Ameritech DS3 Channel Mileage and Channel Mileage Terminations to interconnect Ameritech Base Rate, Ameritech DS1 or Ameritech DS3 channels included in the customer's database for the Ameritech Network Reconfiguration Service (described in 7.4.14(B)).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service
and Ameritech DS3 Service (Cont'd)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

Digital transmission paths for Ameritech Base Rate Services, Ameritech DS1 Service, and Ameritech DS3 Service are differentiated by bit rate, and the quality of transmission is as delineated by the Channel Interface definitions in the Technical Reference Publications cited in Section 7.2 preceding. Customer options are available to customize the channels.

Ameritech Base Rate Services, Ameritech DS1 Service and Ameritech DS3 Service channels may be connected to any other Ameritech Base Rate Service, Ameritech DS1 Service or Ameritech DS3 Service at a Telephone Company Hub, and to certain other Special Access services as described in Section 7.2.9(B)(4)(f) following. When a customer orders service to a Telephone Company Hub, it is the customer's responsibility to assure that the channels connected at the Hub are compatible. Compatible network channel interfaces for interstate Special services are listed in Section 7.3 following.

When service is provided between a customer designated premises and a Telephone Company Fiber Hub location, listed in 7.4.10 following, that service is considered to end at the Fiber Hub location. Performance of the service is measured between the customer designated premises and the Fiber Hub location. Interconnection at the Fiber Hub is limited to Ameritech DS1 Service and Ameritech DS3 Service channels terminating at speeds of 1.544 and 44.736 Mbps, only (not available with Ameritech DS1 - 128.0, 256.0 or 384.0 Kbps transport).

When service is provided between a customer designated premises and an ANRS system location, that service is considered to end at the ANRS system location. Performance of the service is measured between the customer designated premises and the ANRS system location. When service is provided between two ANRS system locations, that service is considered to end at the ANRS system locations, and performance of the service is measured between these two locations. Interconnection at the ANRS system location is limited to Ameritech DS3, Ameritech DS1 (1.544 Mbps and 128 - 384 Kbps) and Ameritech Base Rate Services (2.4 - 64 Kbps) channels.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service, and
Ameritech DS3 Services (Cont'd)T
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(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

The customer may provide the Network Channel Terminating Equipment associated with Ameritech Base Rate, Ameritech DS1 and Ameritech DS3 Local Distribution Channels at the customer premises. In Wisconsin only, provision of 19.2 Kbps service requires the customer to provide a Channel Service Unit equipped with the secondary channels capability enabled. The interim program for interconnection of such equipment is set forth in Technical Reference PUB as No. 1.

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At the option of the customer, Ameritech DS3 service may be provided by means of an optical channel interface at the customer's premises. When the optical interface is selected, the customer must provide the Optical Line Termination associated with the Ameritech service channels at the customer premises. Interconnection of such equipment is limited to those interfaces set forth in 7.2.9(B)(1) following and described in Technical Reference AM TR TMO-000072.

(2) Connection with Other Network Services

Ameritech Base Rate Services, Ameritech DS1 Service and Ameritech DS3 Service may be ordered to allow connections between the customer designated premises and the wire center which provides other network services.

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(a) Dedicated Access Line (DAL)

(i) Ameritech DS1 DAL

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A Dedicated Access Line can be provided as an Ameritech DS1 transmission path between a customer designated premises and a WATS serving office. An Ameritech DS1 DAL is available only when the WATS serving office is an appropriately equipped digital switch. In other offices, Ameritech DS1 Service as described above with multiplexing option must be utilized if the customer desires an Ameritech DS1 Service Interface.

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(TR706)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Services (Cont'd)T
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(A) Basic Channel Description (Cont'd)

(2) Connection with Other Network Services

(a) Dedicated Access Line (DAL) (Cont'd)

(ii) Ameritech Base Rate Service (56 Kbps) DAL

A Dedicated Access Line can be provided as an Ameritech Base Rate Service (56 Kbps) transmission path between a customer designated premises and a Public Switched Digital Service (PSDS) serving office. An Ameritech Base Rate Service (56 Kbps) DAL is available only when the PSDS serving office is an appropriately equipped digital switch.

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(B) Channel Configuration

(1) Ameritech Base Rate, Ameritech DS1, and
Ameritech DS3 Local Distribution Channels

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Ameritech Base Rate, Ameritech DS1, and Ameritech DS3 channels consist of Local Distribution Channels (LDCs), interoffice transport and optional features and functions.

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Ameritech Base Rate Services, Ameritech DS1 Service and Ameritech DS3 Local Distribution Channels provide digital interconnection between the Telephone Company Serving Wire Center (SWC) and the customer. The customer may select from a variety of channel types that define the termination at the customer location. Each type has its own bit rate and transmission characteristics defined by the network channel interface codes. The actual bit rate and/or framing format is a function of the network channel interface selected by the customer. For example, Access to Extended Superframe (BSE - Extended Superframe Conditioning) extends the customer's Ameritech DS1 framing structure from 12 to 24 frames. This framing format is available at no additional charge.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Service (Cont'd)

(B) Channel Configuration (Cont'd)

(1) Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Service Local Distribution Channels (Cont'd)

The following types of LDCs are available:

Terminating Bit Rate	Loop Format	Data Transmission Format	Channel Interface
2.4 Kbps	4-Wire	Synchronous Serial	DU-24
4.8 Kbps	4-Wire	Synchronous Serial	DU-48
9.6 Kbps	4-Wire	Synchronous Serial	DU-96
19.2 Kbps	4-Wire	Synchronous Serial	DU-19
56.0 Kbps	4-Wire	Synchronous Serial	DU-56
56.0 Kbps(DAL)	2-Wire	Synchronous Serial	DU-16
56.0 Kbps(DAL)	4-Wire	Synchronous Serial	DU-56
64.0 Kbps	4-Wire	Synchronous Serial	DU-64
1.544 Mbps	4-Wire	Isochronous Serial	DS-15
44.736 Mbps	4-Wire	Isochronous Serial	DS-44
44.736 Mbps	4-Wire	Isochronous Serial	FC-56 or FC-12

When Ameritech DS3 Service is provided using an optical channel interface, the customer is responsible for providing the Optical Line Termination (OLT) at the customer's premises. The OLT supplied at the customer premises must be compatible with the OLT used by the Telephone Company in the Serving Wire Center. The Telephone Company will work cooperatively with the customer to select compatible OLTs which conform to the requirements set forth in Technical Reference Publication AM TR TMO-000072.

All LDCs comprising a channel must have the same terminating bit rate unless multiplexing is performed at a Telephone Company Hub location.

Only certain LDC to LDC connections with unlike bit rates are allowable using multiplexing. The allowable multiplexing is described in Sections 7.2.9(B)(4)(f) and 7.4.7 following.

When Ameritech DS1 LDCs are used in conjunction with Ameritech DS1 128.0, 256.0 or 384.0 Kbps transport without multiplexing, the usable bandwidth available to the customer is 128.0, 256.0 or 384.0 Kbps, respectively.

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ACCESS SERVICE**7. Special Access Service (Cont'd)****7.2 Service Descriptions (Cont'd)****7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and Ameritech DS3 Service (Cont'd)****(B) Channel Configuration (Cont'd)****(2) Interoffice Transport**

Interoffice Transport facilities comprised of Channel Mileage Terminations (CMT), described in Section 7.1.2(B) preceding, and Channel Mileage (CM), described in Section 7.1.2(C) preceding, provide the transmission paths between the Serving Wire Centers associated with two customer designated premises, between a Serving Wire Center associated with a customer premises and a Telephone Company Hub location or an ANRS System Location or between two Telephone Company ANRS system locations for ANRS associated services. When ANRS system locations are within the same wire center only the appropriate port charges will apply. Three interoffice transport types are available; Base Rate transport which supports bit rates from 2.4 Kbps through 64.0 Kbps, DS1 transport at bit rates of 1.544 Mbps, 128.0 Kbps, 256.0 Kbps and 384.0 Kbps and DS3 transport at the 44.736 Mbps bit rate.

Ameritech Base Rate 2.4 Kbps through 64.0 Kbps LDCs are interconnected to Base Rate transport* while Ameritech DS1 LDCs are interconnected to DS1 transport (1.544 Mbps, 128.0 Kbps, 256.0 Kbps or 384.0 Kbps) and Ameritech DS3 SCs to DS3 transport. Additionally, higher speed LDCs may be cross-connected to lower speed transport using optional multiplexing features delineated in Section 7.2.9(B)(4)(f) following.

(3) Optional Features and Functions

The following table shows the technical specifications packages with which the optional features and functions are available. Not all of the optional features and functions described in this section apply to all of the services; e.g., the Automatic Loop Transfer feature is applicable to Ameritech DS1 channels operating at a terminating speed of 1.544 Mbps only. The following matrix shows the Optional Features and Functions by bit rate that a customer may select. The specific Optional Features and Functions are described in Section 7.2.9(B)(4), a through i, following. Except as specified in 7.2.9(B)(4)(f)(2) following, when Ameritech DS1 LDCs are used in conjunction with Ameritech DS1 128.0, 256.0 or 384.0 Kbps transport, no Optional Features and Functions are available.

Base Rate Interoffice Transport provides usable bandwidths to match the customer's LDC Bit Rate for Ameritech Base Rate services operating at terminating speeds up to and including 64.0 Kbps.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Service (Cont'd)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

Ameritech Base Rate Services
Ameritech DS1 Service and
Ameritech DS3 Service
(Application of Optional Features
and Functions by Terminating Speeds)

	2.4 Kbps	4.8 Kbps	9.6 Kbps	38.4 Kbps	19.2 Kbps	64.0 Kbps	1.544 Mbps	44.736 Mbps
	PACKAGES							
Parameter	DA-						HC-	
	1	2	3	4	5	6	0 1	3
Central Office	X	X	X	X				
Bridging Capability	X	X	X	X				
Secondary Channel							X	
Clear Channel Capability							X	
Automatic Loop Transfer							X	
Transfer Arrangement								
Interconnection - Central								
Office Multiplexing								
Ameritech DS3 to Ameritech DS1								X
Ameritech DS1 to Voice/Ameritech Base Rate/ 128.0, 256.0, 384.0 Kbps Transport							X	
Ameritech DS1 to DDS/DS0							X	
DS0 to Subrate							X	
DS0 Through Connection								
Fiber Hub Cross-Connection*							X	
ANRS Termination#	X	X	X	X	X	X	X	X
Multiplexer Cross-Connection							X	

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* Description of this optional feature and function is delineated in Section 7.4 following.

Description of the Ameritech Network Reconfiguration Service (ANRS) is delineated in
Section 7.2.9(B)(5) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 Ameritech Base Rate Services, Ameritech DS1 Service and
Ameritech DS3 Service (Cont'd)

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(B) Channel Configuration (Cont'd)

(4) Optional Features and Functions

Application of these optional features and functions are delineated in
Section 7.2.9(B)(3) preceding.

(a) Central Office Bridging Capability

This option is applicable to Ameritech Base Rate channels
operating at terminating speeds of 2.4, 4.8, 9.6 and 56.0 Kbps
only. Central Office Bridging Capability allows for
communications between three or more circuit termination
locations.

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(b) Secondary Channels

The Secondary Channel feature is provided in conjunction with
Ameritech Base Rate channels operating at terminating speeds of
2.4, 4.8, 9.6 and 56.0 Kbps (considered the primary channel). A
secondary channel provides a companion digital channel over the
same facility used to provide the primary channel, but at a lower bit
rate. The secondary and primary channels operate independently
of each other, over the same facilities, and must be co-terminated
in common customer equipment as described in Technical
References Publications, cited in Section 7.2 preceding.
Secondary channel is offered as a two-point or multipoint service in
Telephone Company locations where facilities are available. The
addition of the secondary channel option to an existing Ameritech
Base Rate Services will be treated as a disconnect of the existing
service and an installation of a new service including the secondary
channel.

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* Central Office Bridging Capability and Secondary Channels are not available
with 56.0 Kbps DAL.

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